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CENTRAL INTELLIGENCE AGENCY

INFORMATION REPORT

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COUNTRY	China	REPORT NO.	<input type="text"/> 25X1A
SUBJECT	Production of Soviet-Type Lathe at the Number 2 Machine Factory, Tsinan	DATE DISTR.	11 September 1953
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		REFERENCES	

THE SOURCE EVALUATIONS IN THIS REPORT ARE DEFINITIVE.
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(FOR KEY SEE REVERSE)

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SOURCE:

1. The state-operated Tsinan Number 2 Machine Factory, known as the Tsinan Arsenal under the Chinese Nationalists and engaged at that time in the production of 60-mm. guns, was transformed after consolidation of Chinese Communist control into a plant manufacturing non-military articles.¹ In 1950 the factory produced 25-horsepower diesel engines, 12-horsepower medium-speed diesel engines, 350-pound air-hammers (k'ung ch'i ch'ui, 4500/8655/6925), and 0.4 square-meter cement mixers. the factory had successfully produced a four-meter "Grade A" power-driven lathe.
2. the factory had successfully completed production of an experimental nine-meter lung men (7893/7024)² power-driven lathe of the Soviet 724 type.³ This lathe, a heavy machine tool, had a total of 6,198 parts and a total weight of 56 tons. The lathe-bed (tso t'ai 1654/0669) was 22 meters long, and the lung men² was 1.7 meters wide. The lathe itself was 1.25 meters high, and the large working board (ta shih pan, 1129/2457/2647) was 9.8 meters long and 1.3 meters wide. The lathe, which could plane an object as long as 9.6 meters and as heavy as ten tons, required a motor of 13 horsepower to operate it. The movement of the lathe's work stand (t'ai, 0669), which varied from six meters to sixty meters per minute, was capable of free adjustment according to the particular requirements of the object upon which the lathe was used. The difference in grade (ch'i pieh, 4787/0446) did not affect the machine's cutting or shaping. The lathe was capable of being operated at high or low speed. The capacity of the cutting tools (chin tao liang, 6551/0430/6852) was freely adjustable between 0.5 centimeters and 50 centimeters. All important parts of the lathe were equipped with electrically-controlled safety devices, assuring safe operation of the machine.
3. The factory began manufacture of the experimental model of this lathe in the factory planned to go into production of four-meter and six-meter lung men lathes on the basis of techniques learned while developing the nine-meter lathe.

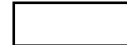
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(Note: Washington Distribution Indicated By "X". Field Distribution By "#".)

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- 25X1A 1.  Comment. The Tsinan Number 2 Machine Factory may be the same factory which (according to information available in December 1951) was located in Tsinan southwest of the railroad station. The same information indicated that the factory had at one time repaired rifles and pistols for the Chinese Nationalist Army and that it had been closed in 1945.
- 25X1A 2.  Comment. Lung men, which means literally "dragon mouth," may be the trade name of the lathe, or it may refer to the chuck (that part of the lathe with clamps which holds the end of the material being planed). It may also have both connotations.
- 25X1A 3.  Comment. Available information does not indicate the existence of a Soviet lathe with this designation.  25X1B
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